



LINKING COLLABORATION AND CARE MANAGEMENT TO THE EVIDENCE BASE

PART I: GUIDELINES

- Agency for Health Care Policy and Research. Clinical Practice Guideline: Quick Reference Guide for Clinicians. AHCPR Publication No. 93-0552. Agency for Health Care Policy and Research; 1993.
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- Coyne J. Katz IR. "Improving the primary care treatment of late life depression: progress and opportunities" *Medical Care*. 39(8):756-9, 2001 Aug.
- Depression Guideline Panel. Clinical Practice Guideline, Depression in Primary Care: Vol. 1. Detection and Diagnosis (AHCPR Publication No. 93-0550). Rockville, MD: U.S. Department of Health and Human Services, Public Health Service Agency for Health Care Policy and Research; 1993.
- Depression Guideline Panel. Clinical Practice Guideline, Depression in Primary Care: Vol. 2. Treatment of Major Depression (AHCPR Publication No. 93-0551). Rockville, MD: U.S. Department of Health and Human Services, Public Health Service Agency for Health Care Policy and Research; 1993.
- Schulberg HC, Katon W, Simon GE, Rush AJ. Treating major depression in primary care practice: an update of the Agency for Health Care Policy and Research Practice Guidelines. *Arch Gen Psychiatry* 1998; 55(12):1121-7.
- US Department of Veterans Affairs. Office of Quality and Performance. Clinical Practice Guidelines. Available at: <http://www.oqp.med.va.gov/cpg/>
- VA/Department of Defense. Clinical Practice Guidelines for Major Depressive Disorder. Available at: http://www.oqp.med.va.gov/cpg/MDD/MDD_Base.htm

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PART II: CARE MODELS FOR ACHIEVING GUIDELINE-CONCORDANT CARE

NOTE: THIS LITERATURE REVIEW IS INTENDED TO HIGHLIGHT LITERATURE THAT IS CLOSEST TO CURRENTLY IMPLEMENTED VA MODELS, RATHER THAN TO REPRESENT A COMPREHENSIVE LIST

High-Quality non-VA Randomized Trials Showing Improved Outcomes, including Work Performance, and Demonstrating High Relative Cost-effectiveness Compared to Other Commonly-used Interventions in Primary Care:

1. Katon W, Von Korff M, Lin E, et al. Stepped collaborative care for primary care patients with persistent symptoms of depression: a randomized trial. *Arch Gen Psychiatry*. Dec 1999;56(12):1109-1115. (*persist dep trial*)
2. Von Korff M, Gruman J, Schaefer J, Curry SJ, Wagner EH. Collaborative management of chronic illness. *Ann Intern Med*. 1997;127(12):1097-1102. (*orig trial*)
3. Schoenbaum M, Unutzer J, McCaffrey D, Duan N, Sherbourne C, Wells KB. The effects of primary care depression treatment on patients' clinical status and employment. *Health Serv Res*. 2002;37(5):1145-1158. (*PIC*)
4. Rost K, Smith BS, Elliott CE, Dickinson LM. The Effect of Improving Primary Care Depression Management on Employee Absenteeism and Productivity: A Randomized Trial. *Med Care*. In press. (*QuEST*)
5. Simon GE, Revicki D, Heiligenstein J, et al. Recovery from depression, work productivity, and health care costs among primary care patients. *Gen Hosp Psychiatry*. 2000;22(3):153-162.
6. Katon WJ, Von Korff M, Lin E, et al. Collaborative management to achieve treatment guidelines: Impact on depression in primary care. *JAMA*. 1995;273(13):1026-1031. (*orig*)
7. Wells KB, Sherbourne C, Schoenbaum M, et al. Impact of disseminating quality improvement programs for depression in managed primary care: a randomized controlled trial. *JAMA*. 2000;283(2):212-220. (*PIC*)
8. Unutzer J, Katon W, Callahan CM, et al. Collaborative care management of late-life depression in the primary care setting: a randomized controlled trial. *JAMA*. 2002;288(22):2836-2845. (*IMPACT*)
9. Rost K, Nutting P, Smith J, Werner J, Duan N. Improving depression outcomes in community primary care practice: a randomized trial of the quEST intervention. *Quality Enhancement by Strategic Teaming*. *J Gen Intern Med*. 2001;16(3):143-149. (*QuEST*)
10. Dietrich AJ, Oxman TE, Williams JW, Jr., et al. Re-engineering systems for the treatment of depression in primary care: cluster randomised controlled trial. *BMJ*. Sep 11 2004;329(7466):602. (*RESPECT*)
11. Dietrich AJ, Oxman TE, Williams JW, Jr., et al. Going to scale: re-engineering systems for primary care treatment of depression. *Ann Fam Med*. Jul-Aug 2004;2(4):301-304. (*RESPECT*)
12. Schoenbaum M, Unutzer J, Sherbourne C, et al. Cost-effectiveness of Practice-Initiated Quality Improvement for Depression: Results of a Randomized Controlled Trial. *JAMA*. 2001;286(11):1325-1330. (*PIC*)

13. Pyne JM, Rost KM, Zhang M, Williams DK, Smith J, Fortney J. Cost-effectiveness of a primary care depression intervention. *J Gen Intern Med*. Jun 2003;18(6):432-441. (*QuEST*)
14. Pyne JM, Smith J, Fortney J, Zhang M, Williams DK, Rost K. Cost-effectiveness of a primary care intervention for depressed females. *J Affect Disord*. Mar 2003;74(1):23-32. (*QuEST*)
15. Simon GE, Katon WJ, VonKorff M, et al. Cost-effectiveness of a collaborative care program for primary care patients with persistent depression. *Am J Psychiatry*. Oct 2001;158(10):1638-1644. (*persist dep*)
16. Von Korff M, Katon W, Bush T, et al. Treatment costs, cost offset, and cost-effectiveness of collaborative management of depression. *Psychosom Med*. Mar-Apr 1998;60(2):143-149. (*orig trial*)
17. Asarnow JR, Jaycox LH, Duan N, et al. Effectiveness of a quality improvement intervention for adolescent depression in primary care clinics: a randomized controlled trial. *JAMA*. Jan 19 2005;293(3):311-319.
18. Dietrich AJ, Oxman TE, Williams JW, Jr., et al. Re-engineering systems for the treatment of depression in primary care: cluster randomised controlled trial. *Br Med J*. Sep 11 2004;329(7466):602. (*RESPECT*)
19. Alexopoulos GS. Katz IR. Bruce ML. Heo M. Ten Have T. Raue P. Bogner HR. Schulberg HC. Mulsant BH. Reynolds CF 3rd. PROSPECT Group. Remission in depressed geriatric primary care patients: a report from the PROSPECT study. [Clinical Trial. Journal Article. Randomized Controlled Trial] *American Journal of Psychiatry*. 162(4):718-24, 2005 Apr.
20. Bogner HR. Cary MS. Bruce ML. Reynolds CF 3rd. Mulsant B. Ten Have T. Alexopoulos GS. The role of medical comorbidity in outcome of major depression in primary care: the PROSPECT study. *American Journal of Geriatric Psychiatry*. 13(10):861-8, 2005 Oct.
21. Mulsant, B.H., G.S. Alexopoulos, C.F. Reynolds, 3rd, et al., Pharmacological treatment of depression in older primary care patients: the PROSPECT algorithm. *Int J Geriatr Psychiatry*, 16(6): p. 585-92, 2001.
22. Bruce, M.L., T.R. Ten Have, C.F. Reynolds, 3rd, et al., Reducing suicidal ideation and depressive symptoms in depressed older primary care patients: a randomized controlled trial. *JAMA*, 291(9): p. 1081-91, 2004.

Randomized Trials Showing the Efficacy of Telephone Care Management Alone Using the Same Model of Care (a number of the studies above used a combination of telephone and in-person):

23. Hunkeler EM, Meresman JF, Hargreaves WA, et al. Efficacy of nurse telehealth care and peer support in augmenting treatment of depression in primary care. *Arch of Gen Med*. 2000;9(8):700-708.
24. Simon GE, VonKorff M, Rutter C, Wagner E. Randomized trial of monitoring, feedback, and management of care by telephone to improve treatment of depression in primary care. *Br Med J*. 2000;320(7234):550-554.
25. Datto, C., M. Miani, M. Disbot, et al. Preliminary analysis of telephone disease management for depression in primary care. in NIMH Mental Health Services Research. 2000. Washington, DC.

Randomized Trials Showing Long-Term (2 to 5 year) Effects:

26. Sherbourne CD, Wells KB, Duan N, et al. Long-term effectiveness of disseminating quality improvement for depression in primary care. *Arch Gen Psychiatry*. Jul 2001;58(7):696-703. (*PIC*)

27. Wells K, Sherbourne C, Schoenbaum M, et al. Five-year impact of quality improvement for depression: results of a group-level randomized controlled trial. Arch Gen Psychiatry. Apr 2004;61(4):378-386. (*PIC*)
28. Rost K, Pyne JM, Dickinson LM, LoSasso AT. Cost-effectiveness of enhancing primary care depression management on an ongoing basis. Ann Fam Med. Jan-Feb 2005;3(1):7-14. (*QuEST*)

Randomized Trials Showing Beneficial Effects in Elderly (All studies include VA):

29. Oslin DW, Thompson R, Kallan MJ, Ten Have T, Blow FC, Bastani R, Gould RL, Maxwell AE, Rosansky J, Van Stone W, Jarvik L, UPBEAT Collaborative Group: Treatment Effects from UPBEAT: A Randomized Trial of Care Management for Behavioral Health Problems in Hospitalized Elderly Patients. Journal of Geriatric Psychiatry and Neurology 17: 99 - 106, 2004.
30. Bartels S, Coakley E, Zubritsky C, Ware J, Areal P, Chen H, Oslin D, Llorente M, Miles K, Costantino G, Quijano L, McIntyre J, Linkins K, Oxman T, Levkoff S: Improving Access to Mental Health Services for Older Adults in Primary Care: A Randomized Trial Comparing Treatment Engagement in Integrated and Enhanced Referral care for Depression, Anxiety Disorders, and At-risk Alcohol Use. American Journal of Psychiatry Vol. 161: 1455 - 1462, 2004.
31. Unutzer J, Katon W, Callahan CM, et al. Collaborative care management of late-life depression in the primary care setting: a randomized controlled trial. JAMA. 2002;288(22):2836-2845. (*IMPACT*)
32. Callahan Collab care for elderly with Alzheimers in PC

Randomized Trials Showing Beneficial Effects on Minorities:

33. Rost K, Pyne JM, Dickinson LM, LoSasso AT. Cost-effectiveness of enhancing primary care depression management on an ongoing basis. Ann Fam Med. Jan-Feb 2005;3(1):7-14. (*QuEST*)
34. Miranda J, Schoenbaum M, Sherbourne C, Duan N, Wells K. Effects of primary care depression treatment on minority patients' clinical status and employment. Arch Gen Psychiatry. Aug 2004;61(8):827-834. (*PIC*)
35. Miranda J, Duan N, Sherbourne C, et al. Improving care for minorities: can quality improvement interventions improve care and outcomes for depressed minorities? Results of a randomized, controlled trial. Health Serv Res. Apr 2003;38(2):613-630.
36. Schoenbaum M, Miranda J, Sherbourne C, Duan N, Wells K. Cost-effectiveness of interventions for depressed Latinos. J Ment Health Policy Econ. Jun 2004;7(2):69-76. (*PIC*)

Studies Supporting the Effectiveness of Collaboration and Care Management for Alcohol Dependence as a Depression Comorbidity:

37. Oslin, D.W., Treatment of late-life depression complicated by alcohol dependence. Am J Geriatr Psychiatry, 13(6): p. 491-500, 2005.
38. Oslin DW, Katz IR, Edell WS, TenHave T: The Effects of Alcohol Consumption on the Treatment of Depression among the Elderly. American Journal of Geriatric Psychiatry Vol. 8: 215-220, 2000.
39. Oslin, D.W., S. Sayers, J. Ross, et al., Disease management for depression and at-risk drinking via telephone in an older population of veterans. Psychosom Med, 65(6): p. 931-7, 2003.

Studies Supporting Effectiveness of Collaboration and Care Management for Alcohol Abuse without Co-Occurring Depression:

40. Pettinati, H.M., R.D. Weiss, W. Dundon, et al., A structured approach to medical management: a psychosocial intervention to support pharmacotherapy in the treatment of alcohol dependence. *J Stud Alcohol Suppl*, (15): p. 170-8; discussion 168-9, 2005.
41. Kaempf, G., C. O'Donnell, and D.W. Oslin, The BRENDA model: a psychosocial addiction model to identify and treat alcohol disorders in elders. *Geriatr Nurs*, 20(6): p. 302-4, 1999.
42. Ross, J., S. Sayers, B. Kinoshian, et al., Screening for alcohol misuse in primary care: Use of the Behavioral Health Laboratory as a stimulus for an integrated system of care. *Psychiatric Services*, submitted.
43. Oslin DW, Grantham S, Coakley E, Maxwell J, Miles K, Ware J, Blow FC, Krahn D, Bartels S, Zubritsky C, Olsen E, Kirchner JE, Levkoff S, and the PRISM-E Group, Managing At-Risk Alcohol Use in Older Primary Care Patients: Results of a Randomized Trial of Referral Care vs. Integrated Care, *Psychiatric Services*, in press
44. Oslin, D.W., J. Ross, S. Sayers, et al., Screening, assessment, and management of depression in VA primary care clinics. The Behavioral Health Laboratory. *J Gen Intern Med*, 21(1): p. 46-50, 2006.

Studies Supporting Effectiveness of Collaboration and Care Management for Anxiety:

45. Get Bruce Rollman. Ask Cathy Sherbourne for any additional refs.

VA trial Showing Collaborative Care for Depression is More Effective than Primary Care-based Psychiatrists using Standard Consult Liaison:

46. Hedrick SC, Chaney EF, Felker B, et al. Effectiveness of collaborative care depression treatment in Veterans' Affairs primary care. *J Gen Intern Med*. Jan 2003;18(1):9-16.
47. Liu CF, Hedrick SC, Chaney EF, et al. Cost-effectiveness of collaborative care for depression in a primary care veteran population. *Psychiatr Serv*. May 2003;54(5):698-704.

VA trial Showing that Less Structured RN CNS Care Management Did Not Improve Outcomes (Has Some Design/Power Issues):

48. Swindle RW, Rao JK, Helmy A, et al. Integrating clinical nurse specialists into the treatment of primary care patients with depression. *Int J Psychiatry Med*. 2003;33(1):17-37.

Studies Showing Effects of Collaboration and Collocation without Care Management

49. Levkoff, S.E., H. Chen, E. Coakley, et al., Design and sample characteristics of the PRISM-E multisite randomized trial to improve behavioral health care for the elderly. *J Aging Health*, 16(1): p. 3-27, 2004.
50. Wittink, M.N., D. Oslin, K.A. Knott, J.C. Coyne, J.J. Gallo, and C. Zubritsky, Personal characteristics and depression-related attitudes of older adults and participation in stages of implementation of a multi-site effectiveness trial (PRISM-E). *Int J Geriatr Psychiatry*, 2005. 20(10): p. 927-937.
51. Polsky D, Doshi JA, Marcus S, Oslin D, Rothbard A, Thomas N, Thompson CL. Long-term risk for depressive symptoms after a medical diagnosis. *Archives of Internal Medicine* 165: 1260-1266, 2005.

Cochrane-type Literature Reviews Showing that Multi-Component Programs, most of which Follow Collaborative Care, are More Effective:

52. Pignone MP, Gaynes BN, Rushton JL, et al. Screening for depression in adults: a summary of the evidence for the U.S. Preventive Services Task Force. *Ann Intern Med.* May 21 2002;136(10):765-776.
53. Gilbody S, Whitty P, Grimshaw J, Thomas R. Educational and organizational interventions to improve the management of depression in primary care: a systematic review. *JAMA.* Jun 18 2003;289(23):3145-3151.
54. Craven MA, Bland R. Better Practices in Collaborative Mental Health Care: An Analysis of the Evidence Base. Paper commissioned by the Canadian Collaborative Mental Health Initiative, published 5/2006, available at http://www.ccmhi.ca/en/products/series_of_papers.html

High-Quality Computer Feedback or High Quality Provider Education Used in Isolation are Not Effective:

55. Rubenstein LV, McCoy JM, Cope DW, et al. Improving patient quality of life with feedback to physicians about functional status. *J Gen Intern Med.* Nov 1995;10(11):607-61
56. Rollman BL, Hanusa BH, Lowe HJ, Gilbert T, Kapoor WN, Schulberg HC. A randomized trial using computerized decision support to improve treatment of major depression in primary care. *J Gen Intern Med.* Jul 2002;17(7):493-503.
57. Gerrity MS, Cole SA, Dietrich AJ, Barrett JE. Improving the recognition and management of depression: is there a role for physician education? *J Fam Pract.* Dec 1999;48(12):949-957.
58. Thompson, C., A. L. Kinmonth, et al. (2000). Effects of a clinical-practice guideline and practice-based education on detection and outcome of depression in primary care: Hampshire Depression Project randomised controlled trial. *Lancet* 355(9199): 185-91.

How Collaborative Care Works:

59. Dietrich AJ, Eisenberg L. Better management of depression in primary care [editorial]. *J Fam Pract.* 1999;48(12):945-946.
60. Oxman TE, Dietrich AJ, Williams JW, Jr., Kroenke K. A three-component model for reengineering systems for the treatment of depression in primary care. *Psychosomatics.* Nov-Dec 2002;43(6):441-450.
61. Rubenstein LV, Parker LE, Meredith LS, et al. Understanding team-based quality improvement for depression in primary care. *Health Serv Res.* 2002;37(4):1009-1029.
62. Rubenstein LV, Jackson-Triche M, Unutzer J, et al. Evidence-based care for depression in managed primary care practices. *Health Affairs (Millwood).* 1999;18(5):89-105.
63. Rost K, Nutting PA, Smith J, Werner JJ. Designing and implementing a primary care intervention trial to improve the quality and outcome of care for major depression. *Gen Hosp Psychiatry.* Mar-Apr 2000;22(2):66-77.
64. Depression Patient Outcomes Research Team (PORT-II). Partners In Care. RAND. Available at: <http://www.rand.org/health/partners.care/portweb/>. July 01, 2001. Accessed June, 2005.
65. TIDES/WAVES/COVES VA HSR&D Website. Available at: http://www.va.gov/tides_waves/
66. MacArthur Initiative on Depression in Primary Care Website. Available at: <http://www.depression-primarycare.org>
67. IMPACT (Improving Mood-Promoting Access to Collaborative Treatment for late life depression) Website. Available at <http://impact-uw.org/>

Collaborative Care as a Chronic Illness Care Model:

68. Wagner EH, Glasgow RE, Davis C, et al. Quality Improvement In Chronic Illness Care: A Collaborative Approach. *Jt Comm J Qual Improv.* 2001;27(2):63-80.
69. Institute of Medicine. *Crossing the Quality Chasm : A New Health System for the 21st Century.* Washington: National Academy Press; 2001.